

## **IN THE CLAIMS**

Claims 1-9 have been cancelled without prejudice or disclaimer and new claims 10-24 have been added and are now in this application. All pending claims, whether amended or not, are included below.

10. (New) An apparatus having at least one carbon nanotube coupled to a nanostructure, wherein the nanotube is formed by:  
creating the nanostructure on a substrate;  
placing a catalyst in the nanostructure; and  
forming the carbon nanotube on the nanostructure.
11. (New) An apparatus in accordance with Claim 10, wherein the catalyst comprises iron, cobalt, nickel or alloys of iron, cobalt and nickel.
12. (New) An apparatus in accordance with Claim 10, wherein the substrate comprises a semiconductor.
13. (New) An apparatus in accordance with Claim 10, wherein the apparatus is a microelectromechanical device.
14. (New) An apparatus in accordance with Claim 10, wherein the apparatus is a scanning probe tool tip.
15. (New) An apparatus in accordance with Claim 10, wherein the apparatus is a flat panel display.
16. (New) An apparatus in accordance with Claim 10, wherein the apparatus is a field emission device.

17. (New) An apparatus in accordance with Claim 10, wherein the carbon nanotube forms a molecular antenna.
18. (New) An apparatus having at least one carbon nanotube coupled to a nanostructure, wherein the nanotube is formed by:  
creating a nanostructure having a pore and a protrusion within a substrate;  
placing a catalyst within the nanostructure pore; and  
forming the carbon nanotube from the protrusion of the nanostructure;
19. (New) An apparatus in accordance with Claim 18, wherein the catalyst comprises iron, cobalt, nickel or alloys of iron, cobalt and nickel.
20. (New) An apparatus in accordance with Claim 18, wherein the apparatus is a microelectromechanical device.
21. (New) An apparatus in accordance with Claim 18, wherein the apparatus is a scanning probe tool tip.
22. (New) An apparatus in accordance with Claim 18, wherein the apparatus is a flat panel display.
23. (New) An apparatus in accordance with Claim 18, wherein the apparatus is a field emission device.
24. (New) An apparatus in accordance with Claim 18 wherein the carbon nanotube forms a molecular antenna.